

SAFETY DATA SHEET

24-March-2022

Revision date: 24-March-2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

of the mixture

N.F. PRECISION CLEANER

Registration number

Synonyms None.

Product code BDS002439AE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaners - Precision

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries UK Ltd.

Wylds Road **Address**

> Castlefield Industrial Estate TA6 4DD Bridgwater Somerset

United Kingdom

+44 1278 727200 Telephone +44 1278 425644 Fax E-mail hse.uk@crcind.com Website www.crcind.com

CRC Industries Europe by Company name

Address Touwslagerstraat 1

> 9240 Zele Belgium

Telephone +32(0)52/45.60.11 +32(0)52/45.00.34 Fax E-mail hse@crcind.com Website www.crcind.com

1.4. Emergency telephone

number

Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons Information Centre

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National Toxicological Information

Centre

+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Czech Republic National Poisons Information

Centre

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

Control Center

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be

Estonia National Poisons

Information Centre

available for the Emergency Service.)

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Material name: N.F. PRECISION CLEANER - Ambersil - europe BDS002439AE Version #: 1,0 Revision date: 24-March-2022 Issue date: 24-March-2022 **France National Poisons Control Center**

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Hungary National

Emergency Phone Number

36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Lithuania Neatidėliotina informacija apsinuodijus +370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department**

2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

030-274 88 88 (Only for the purpose of informing medical personnel in cases of

acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Portugal Poison Centre 800 250 250 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Romania Număr de telefon care poate fi apelat în caz de urgență:

021 5992300, int. 291 Spitalul Clinic de Urgență Bucuresti:

spital@urgentafloreasca.ro

0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Romania

Târgu Mureș: secretariat@spitjudms.ro

Slovakia National Toxicological Information Centre

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day, SDS/Product

information may not be available for the Emergency Service.)

Switzerland Tox Info

the Emergency Service.) Suisse

145 (Available 24 hours a day. SDS/Product information may not be available for

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols Category 3 H229 - Pressurized container: May

burst if heated.

Health hazards

exposure

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

Environmental hazards

Hazardous to the aquatic environment, Category 4 H413 - May cause long lasting harmful effects to aquatic life. long-term aquatic hazard

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

trans-dichloroethylene Contains:

Hazard pictograms



Signal word Warning

Hazard statements

Pressurized container: May burst if heated. H229

Causes serious eye irritation. H319

May cause drowsiness or dizziness. H336

May cause long lasting harmful effects to aquatic life. H413

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Precautionary statements

Prevention

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing mist/vapours.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Not assigned.

Storage

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Regul

Regulation (EC) No 648/2004 on detergents: halogenated hydrocarbons > 30%

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
reaction mass of: 1-ethoxy-1,1,2,3,3,3-hexafluoro-2-(trifl ம ன்பாகழ் டிழி)ந்தூத்தை,4,4,4-nonafluoro butane	25 - 50	- 425-340-0	01-0000017174-74	603-109-00-7	
Classification:	Aquatic Cl	nronic 4;H413			
trans-dichloroethylene	5 - 10	156-60-5 205-860-2	01-2120093504-55	602-026-00-3	
Classification: F	Flam. Liq.	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336, Aqu	ıatic	
(Chronic 3;	H412			

CHIOHIC 3,11412

List of abbreviations and symbols that may be used above ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This

substance has been assigned Union workplace exposure limit(s).

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth. Get

medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Ingestion

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Not available

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5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Powder. Carbon dioxide (CO2). Water spray.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Containers should be cooled with water to prevent vapour pressure build up.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Avoid breathing mist/vapours. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will sediment in water systems. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if this is without risk.

Never return spills to original containers for re-use. Use water spray to reduce vapours or divert vapour cloud drift. Dike the spilled material, where this is possible.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10 of the SDS)

Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

Store in a cool, dry place out of direct sunlight. Keep container tightly closed.

7.3. Specific end use(s) Not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

-ene (CAS 29118-24-9)

Components	Туре	Value
(E)-1,3,3,3-tetrafluoroprop-1	TWA (MAK)	1000 ppm

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Austria. MAK List, OEL Ordinance (Gomponents	wV), BGBI. II, no. 184/2001 Type	Value
trans-dichloroethylene (CAS 156-60-5)	MAK	790 mg/m3
		200 ppm
	STEL	3160 mg/m3
		800 ppm
Belgium. Exposure Limit Values Components	Туре	Value
rans-dichloroethylene (CAS	TWA	805 mg/m3
156-60-5)	1007	200 ppm
Groatia. Dangerous Substance Expos Components	Type	rkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value
rans-dichloroethylene (CAS 56-60-5)	MAC	806 mg/m3
		200 ppm
	STEL	1010 mg/m3
		250 ppm
Czech Republic. OELs. Government E Components	Decree 361 Type	Value
rans-dichloroethylene (CAS	Ceiling	1600 mg/m3
,	TWA	800 mg/m3
Denmark. Exposure Limit Values Components	Туре	Value
rans-dichloroethylene (CAS 56-60-5)	TLV	790 mg/m3
		200 ppm
Finland. Workplace Exposure Limits Components	Туре	Value
rans-dichloroethylene (CAS 56-60-5)	STEL	1000 mg/m3
		250 ppm
	TWA	800 mg/m3
		200 ppm
Germany. DFG MAK List (advisory OB n the Work Area (DFG)	ELs). Commission for the li	nvestigation of Health Hazards of Chemical Compounds
Components	Туре	Value
E)-1,3,3,3-tetrafluoroprop-1 ene (CAS 29118-24-9)	TWA	4700 mg/m3
•		1000 ppm
rans-dichloroethylene (CAS	TWA	800 mg/m3
56-60-5)		200 ppm
Germany. TRGS 900, Limit Values in t Components	the Ambient Air at the Worl	kplace Value
E)-1,3,3,3-tetrafluoroprop-1 ene (CAS 29118-24-9)	AGW	4700 mg/m3
		1000 ppm
trans-dichloroethylene (CAS 156-60-5)	AGW	800 mg/m3
 /		200 ppm

Greece. OELs (Decree No. 90/1999, as a Components	Туре	Value
rans-dichloroethylene (CAS	STEL	1000 mg/m3
156-60-5)		250 ppm
	TWA	790 mg/m3
		200 ppm
Hungary. OELs. Joint Decree on Chemi	cal Safety of Workplaces	S
Components	Туре	Value
trans-dichloroethylene (CAS 156-60-5)	STEL	1580 mg/m3
	TWA	800 mg/m3
celand. OELs. Regulation 154/1999 on		
Components	Туре	Value
trans-dichloroethylene (CAS 156-60-5)	TWA	790 mg/m3
,		200 ppm
Ireland. Occupational Exposure Limits		
Components	Туре	Value
trans-dichloroethylene (CAS	TWA	790 mg/m3
156-60-5)		200 ppm
Make Occuments and E. C.		200 ρριτι
Italy. Occupational Exposure Limits Components	Туре	Value
trans-dichloroethylene (CAS 156-60-5)	TWA	200 ppm
Norway. Administrative Norms for Cont	taminants in the Worknis	200
Components	Type	Value
trans-dichloroethylene (CAS	TLV	395 mg/m3
156-60-5)		400
		100 ppm
		on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817
Components	Туре	Value
trans-dichloroethylene (CAS 156-60-5)	TWA	700 mg/m3
Portugal. VLEs. Norm on occupational	exposure to chemical ag	gents (NP 1796)
Components	Туре	Value
trans-dichloroethylene (CAS 156-60-5)	TWA	200 ppm
Romania. OELs. Protection of workers		
Components	Туре	Value
trans-dichloroethylene (CAS 156-60-5)	STEL	300 mg/m3
	T\A/A	76 ppm
	TWA	200 mg/m3
		50 ppm
Slovakia. OELs. Regulation No. 300/200 Components	7 concerning protection Type	of health in work with chemical agents Value
trans-dichloroethylene (CAS	STEL	1010 mg/m3
156-60-5)	OILL	10 to mg/mo
•		250 ppm
		FF
	TWA	800 mg/m3

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	
(E)-1,3,3,3-tetrafluoroprop-1 -ene (CAS 29118-24-9)	TWA	4700 mg/m3	
		1000 ppm	
trans-dichloroethylene (CAS 156-60-5)	TWA	800 mg/m3	
		200 ppm	
Spain. Occupational Exposure Lin	nits		
Components	Туре	Value	
trans-dichloroethylene (CAS 156-60-5)	TWA	807 mg/m3	
		200 ppm	
Switzerland. SUVA Grenzwerte am	Arbeitsplatz		
Components	Туре	Value	
(E)-1,3,3,3-tetrafluoroprop-1 -ene (CAS 29118-24-9)	STEL	9400 mg/m3	
		2000 ppm	
	TWA	4700 mg/m3	
		1000 ppm	
trans-dichloroethylene (CAS 156-60-5)	STEL	1580 mg/m3	
		400 ppm	
	TWA	790 mg/m3	
		200 ppm	
UK. EH40 Workplace Exposure Lir	nits (WELs)		
Components	Туре	Value	
trans-dichloroethylene (CAS 156-60-5)	STEL	1010 mg/m3	
		250 ppm	
	TWA	806 mg/m3	
		200 ppm	

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes
trans-dichloroethylene (CAS 156-60-5)			
Long-term, Systemic, Inhalation	198 mg/m3	20	Repeated dose toxicity
Long-term, Systemic, Oral	57 mg/kg bw/day	80	Repeated dose toxicity
Workers			
Components	Value	Assessment factor	Notes
reaction mass of: 1-ethoxy-1,1,2,3,3,3-hex	afluoro-2-(trifluoromethyl)pro	pane 1-ethoxy-1,1,2,2,3,3,4	1,4,4-nonafluorobutane (CAS -)
Long-term, Systemic, Inhalation	1764 mg/m3		
trans-dichloroethylene (CAS 156-60-5)			
Long-term, Systemic, Inhalation	797 mg/m3	10	Repeated dose toxicity
edicted no effect concentrations (PNECs)			
Components	Value	Assessment factor	Notes
reaction mass of: 1-ethoxy-1,1,2,3,3,3-hex	afluoro-2-(trifluoromethyl)pro	pane 1-ethoxy-1,1,2,2,3,3,4	1,4,4-nonafluorobutane (CAS -)
Freshwater	0,00237 mg/l		
Sediment (freshwater)	0,0393 mg/kg bw/day		
Soil	0,0041 mg/kg		
trans-dichloroethylene (CAS 156-60-5)			
Freshwater	36,4 µg/l	1000	

Sediment (freshwater) 548,3 µg/kg Soil 56,3 µg/kg

STP 17 mg/l 100

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen **General information**

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

Skin protection

- Hand protection Nitrile gloves are recommended. For accidental contact the use of disposable gloves should be

sufficient provided they are changed immediately after a splash or spill may occur. If intentional contact is expected reusable gloves should be used with a breakthrough time greater than the total

duration of the product use. Suitable gloves can be recommended by the glove supplier.

- Other Not available

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with Respiratory protection

organic vapour cartridge. (Filter type AX)

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

When using do not smoke. Always observe good personal hygiene measures, such as washing Hygiene measures

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid. **Form** Aerosol. Colour Colourless.

Characteristic odor. Odour

-49,8 °C (-57,6 °F) estimated Melting point/freezing point

Boiling point or initial boiling point and boiling range

Not available.

Not available. Flammability (solid, gas)

None Flash point

> 200 °C (> 392 °F) **Auto-ignition temperature Decomposition temperature** Not available. Not applicable.

Solubility(ies)

Insoluble in water Solubility (water) 268 hPa estimated Vapour pressure Not available. Vapour density 1,4 g/cm3 at 20°C Relative density **Particle characteristics** Not available.

9.2. Other information

9.2.1. Information with regard No relevant additional information available.

to physical hazard classes

9.2.2. Other safety characteristics

Aerosol spray enclosed space Time equivalent $> 300 \text{ s/m}^3$

Aerosol spray ignition

distance

< 15 cm

Not explosive. **Explosive properties**

Oxidising properties Not oxidising.

VOC 1400 g/l

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid high temperatures.10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous Carbon oxides.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Based on available data, the classification criteria are not met.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met. Classification based on calculation

method.

Components Species Test Results

reaction mass of: 1-ethoxy-1,1,2,3,3,3-hexafluoro-2-(trifluoromethyl)propane 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane

Acute Dermal

LD50 Rat 2000 - 5000 mg/kg

Inhalation

LC50 Rat > 989 mg/l

Oral

LD50 > 2000 mg/kg

trans-dichloroethylene (CAS 156-60-5)

Acute Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat 95,6 mg/l/4h

Oral

Rat 7902 mg/kg

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisationBased on available data, the classification criteria are not met.Skin sensitisationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Reproductive toxicity Based on available data, the classification criteria are not met.

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Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Not likely, due to the form of the product.

Mixture versus substance

information

Not available.

11.2. Information on other hazards

Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity May cause long lasting harmful effects to aquatic life.

Species Components **Test Results**

reaction mass of: 1-ethoxy-1,1,2,3,3,3-hexafluoro-2-(trifluoromethyl)propane 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane

Aquatic

Acute

Algae EC50 Algae > 100 mg/l, 48 h Crustacea NOEC Daphnia > 100 mg/l. 96 h

trans-dichloroethylene (CAS 156-60-5)

Aquatic

Acute

EC50 36,36 mg/l, 48 h Algae Algae

>= 170 - <= 290 mg/l, 48 hours Crustacea LC50 Water flea (Daphnia magna) Fish LC50 Bluegill (Lepomis macrochirus) >= 120 - <= 160 mg/l, 96 hours

No data is available on the degradability of any ingredients in the mixture.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

> trans-dichloroethylene 2,06

> > No data available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautions Dispose in accordance with all applicable regulations.

Material name: N.F. PRECISION CLEANER - Ambersil - europe

SECTION 14: Transport information

ADR

UN1950 14.1. UN number 14.2. UN proper shipping **AEROSOLS**

14.3. Transport hazard class(es) 2.2 Class Subsidiary risk 2.2 Label(s)

> Not available. Hazard No. (ADR)

Tunnel restriction code E

14.4. Packing group Not available.

14.3. Transport hazard class(es) ADR/RID - Classification 5A

code:

14.5. Environmental hazards No

Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1950 14.2. UN proper shipping Aerosols

name

14.3. Transport hazard class(es)

Subsidiary risk

14.4. Packing group Not available.

14.5. Environmental hazards No **ERG Code**

14.6. Special precautions

for user

Other information Allowed with restrictions. Passenger and cargo

aircraft

Allowed with restrictions. Cargo aircraft only

IMDG

14.1. UN number UN1950 14.2. UN proper shipping Aerosols

name

14.3. Transport hazard class(es)

2.2 Class Subsidiary risk

Not available. 14.4. Packing group

14.5. Environmental hazards Marine pollutant No

F-D, S-U **EmS**

Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions

for user

Not established. 14.7. Maritime transport in bulk

according to IMO instruments

ADR; IATA; IMDG



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended trans-dichloroethylene (CAS 156-60-5)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

trans-dichloroethylene (CAS 156-60-5)

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,

labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. VOC: Volatile organic compounds.

vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

References

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under Sections 2 to 15 Not available.

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

Revision information Training information

Disclaimer

None.

Follow training instructions when handling this material.

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